Homework

1) What are the 2 conditions required for total internal reflection?

The 2 imp conditions are.

The Ray should travel from denser-rarer medium

The i should be greater than critical angle

2) A fish in the pond of water appears 6cm deep when it is actual depth of ~~water~~ refractive index of air wrt water is 3/4?

Actual depth = refractive index x apparent depth

$6 \times 4/3$

Actual depth = 8cm

3) A rectangular of thickness of 8cm is placed on figure the eye is kept resting above the slab if it is 1.6 By what distance the ray is displaced?

Apparent depth = Real depth / Refractive index

$= 8/1.6 = 5cm$

Normal shift = real depth - apparent depth

$= 8 - 5 = 3cm$